

Patent Application 10/672,759 of Neil Alex Korneff for "On-Demand Ejection for Injection Molds"
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Appn. Number: 10/672,759
Appn. Filed: 2003 Sept. 27
Applicant: Neil Alex Korneff
Title: On-Demand Ejection for Injection Molds
Examiner: Len Tran
Art Unit: 1725

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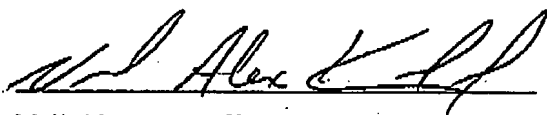
Appeal Brief - Amendment C

Mail Stop Appeal Brief - Patents
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This is in response to the "Order Returning Undocketed Appeal to Examiner" mailed June 6, 2007. The content under the heading "Summary of Claimed Subject Matter" was corrected, and refers now to page and line numbers per 37 § CFR 41.37(c)(1)(v). 37 § CFR 41.37(c)(1) states "...a brief filed by an appellant who is not represented by a registered practitioner need only substantially comply with paragraphs (c)(1)(i) through (c)(1)(iv) and (c)(1)(vii) through (c)(1)(x) of this section..." Since compliance with 37 § CFR 41.37(c)(1)(v) was not required, it was originally not considered. Please amend the subject appeal brief as described on the following pages.

Respectfully,



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(5) Summary of Claimed Subject Matter

This invention provides a method of performing ejection sequences in an injection mold on demand, increasing production efficiency and protecting the mold (summary page 2, lines 28-29). The presence or absence of a molded article, or portion thereof 30, in said injection mold is detected by, and not limited to, an article sensing vision system 14 and/or radiation emitting and receiving sensors 16, 18, 20 (detailed description, 1st paragraph page 3, line 21 – page 4, line 6).

If said molded article, or portion thereof 30, is not detected in said mold, the mold is allowed to close and initiate the next injection molding cycle (operation, 1st paragraph page 4, line 20 – page 5, line 2).

If said molded articles, or portions thereof 30, are detected in said mold, an ejection sequence is initiated to try and automatically remove the part from the mold (operation, 1st paragraph page 4, line 20 – page 5, line 2). Subsequent inspections and ejections are performed in an attempt to remove said part, or portion thereof 30, automatically from said mold. If a predetermined number of ejection sequences are reached and said molded article, or portion thereof 30, is still detected in said mold, the molding machine controller 26 will signal for operator intervention (operation, 1st paragraph page 4, line 20 – page 5, line 2).

This invention offers advantages over prior art. Utilizing this method will increase production efficiency since only the required amount of ejection sequences will be utilized in any molding cycle (operation, 2nd paragraph, sentence "a" page 5, lines 4 - 6). Prior art requires a conservative amount of ejection sequences to be utilized on every molding cycle to help prevent mold operator-intervention alarms and/or mold damage. A reduction in operator intervention will be realized since the system will attempt to self-correct improperly ejected articles, or portions thereof 30 (operation, 2nd paragraph, sentence "d" page 5, lines 11 - 13). The mold will have

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increased protection from damage caused by closing on an improperly ejected article, or portion thereof 30 (~~operation, 2nd paragraph, sentence "b"~~ page 5, lines 7 - 8). Molded articles made immediately after a significant delay in production have questionable quality. Such significant delays will be reduced since this method does not stop the molding machine until multiple additional ejection sequences have been tried to automatically correct the problem (~~operation, 2nd paragraph, sentence "e"~~ page 5, lines 9 - 10).